

L14 ANSWER 1 OF 12 PCTFULL COPYRIGHT 2003 Univentio
 ACCESSION NUMBER: 2002090498 PCTFULL ED 20021121 EW 200246
 TITLE (ENGLISH): A HIGH THROUGHPUT ASSAY FOR IDENTIFICATION OF GENE
 EXPRESSION MODIFIERS
 TITLE (FRENCH): DOSAGE COMPLET A HAUT RENDEMENT POUR L'IDENTIFICATION
 D'AGENTS MODIFICATEURS D'EXPRESSION GENETIQUE
 INVENTOR(S): PRUITT, Steven, C., 29 Thistle Lea, Williamsville, New
 York 14221, US [US, US];
 HANGAUER, David, G., 8431 Hidden Oaks Drive, East
 Amherst, NY 14051, US [US, US];
 STEWART, Carleton, C., 30 Carlton Drive, Orchard Park,
 NY 14127, US [US, US];
 MIELNICKI, Lawrence, Mark, 537 Norwood Avenue, No. 1,
 Buffalo, NY 14222, US [US, US]
 PATENT ASSIGNEE(S): HEALTH RESEARCH, INC., Roswell Park Cancer Institute
 Division, Elm and Carlton Streets, Buffalo, NY 14263,
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 Amherst, NY 14051, US [US, US], for US only;
 STEWART, Carleton, C., 30 Carlton Drive, Orchard Park,
 NY 14127, US [US, US], for US only;
 MIELNICKI, Lawrence, Mark, 537 Norwood Avenue, No. 1,
 Buffalo, NY 14222, US [US, US], for US only
 AGENT: KADLE, Ranjana\$, Hodgson Russ LLP, One M & T Plaza,
 Suite 2000, Buffalo, NY 14203-2391\$, US
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002090498	A2	20021114

 DESIGNATED STATES
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 APPLICATION INFO.: WO 2002-US14212 A 20020506
 PRIORITY INFO.: US 2001-60/288,994 20010504
 ABEN The present invention provides a method for screening of a large number
 of compounds for their ability to modulate the expression of genes. The
 method uses gene trap technology and comprises the steps of transfecting
 a population of cells with a gene-trap vector, sorting cells according
 to their level of fluorescence, distributing sorted cells into pools and
 expanding the pools to obtain a sufficient number of cells representing
 each trapped gene to permit distinction of the effect of a test compound
 over controls, exposing the cells to the test compounds and identifying
 compounds which alter the fluorescence distribution pattern of cells
 using FACS analysis.
 ABFR La presente invention concerne un procede de criblage d'un grand nombre
 de composes en vue de determiner leur capacite de moduler l'expression
 genetique. Le procede utilise la technologie de piegeage de genes et

comporte les etapes de transfection d'une population de cellules au moyen d'un vecteur de piegeage de genes, le tri des cellules selon leur niveau de fluorescence, la distribution des cellules trieées en groupes et l'expansion des groupes en vue d'obtenir un nombre suffisant de cellules representant chaque gene piege permettant de distinguer l'effet d'un compose de test sur les temoins, l'exposition des cellules aux composees de test et l'identification des composees qui modifient la configuration de la distribution de la fluorescence des cellules au moyen d'une analyse de trieur de cellules a fluorescence.

L14 ANSWER 2 OF 12 PCTFULL COPYRIGHT 2003 Univentio
 ACCESSION NUMBER: 2002040685 PCTFULL ED 20020610 EW 200221
 TITLE (ENGLISH): VECTORS FOR CONDITIONAL GENE INACTIVATION
 TITLE (FRENCH): VECTEURS D'INACTIVATION GENIQUE CONDITIONNELLE
 INVENTOR(S): XIN, Hong-Bo, 600 Warren Road, Apt. 5-3E, Ithaca, NY 14850, US [CN, US];
 KOTLIKOFF, Michael, 11 The Byway, Ithaca, NY 14850, US [US, US]
 PATENT ASSIGNEE(S): CORNELL RESEARCH FOUNDATION, INC., 20 Thornewood Drive, Suite 105, Ithaca, NY 14850, US [US, US], for all designates States except US;
 XIN, Hong-Bo, 600 Warren Road, Apt. 5-3E, Ithaca, NY 14850, US [CN, US], for US only;
 KOTLIKOFF, Michael, 11 The Byway, Ithaca, NY 14850, US [US, US], for US only
 AGENT: VIKSNINS, Ann, S.\$, Schwegman, Lundberg, Woessner & Kluth, P.O. Box 2938, Minneapolis, MN 55402\$, US
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002040685	A2	20020523

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

RW (ARIPO):

GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2001-US43916 A 20011116

PRIORITY INFO.:

US 2000-60/249,200 20001116

ABEN A method of preparing gene trapping libraries, and gene targeted cells for conditional inactivation of genes, is provided.

ABFR L'invention concerne un procede permettant la preparation d'une banque destinee au piegeage de genes ainsi que des cellules modifiees par ciblage genique permettant l'inactivation conditionnelle de genes.

L14 ANSWER 3 OF 12 PCTFULL COPYRIGHT 2003 Univentio
 ACCESSION NUMBER: 2001029208 PCTFULL ED 20020820
 TITLE (ENGLISH): CONDITIONAL GENE TRAPPING CONSTRUCT FOR THE DISRUPTION OF GENES
 TITLE (FRENCH): CONSTRUCTION DE PIEGEAGE DE GENES CONDITIONNEL POUR LA DISRUPTION GENETIQUE
 INVENTOR(S): KUeHN, Ralf;
 VON MELCHENER, Harald;
 ALTSCHMIED, Joachim

PATENT ASSIGNEE(S): ARTEMIS PHARMACEUTICALS GMBH;
FRANKGEN BIOTECHNOLOGIE AG;
KUEHN, Ralf;
VON MELCHENER, Harald;
ALTSCHMIED, Joachim
DOCUMENT TYPE: Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2001029208	A1	20010426

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2000-EP10162 A 20001016
PRIORITY INFO.: EP 1999-99120592.3 19991016
US 1999-60/162,016 19991027

ABEN The present invention relates to a gene trapping construct which causes conditional mutations in genes, and the use of this gene trapping construct to mutationally inactivate all cellular genes. In addition the invention relates to a cell, preferably a mammalian cell which contains the above mentioned construct. Moreover, the invention relates to the use of said cell for identification and/or isolation of genes and for the creation of transgenic organisms to study gene function at various developmental stages, including the adult. In conclusion, the present invention provides a process which enables a temporally and/or spatially restricted inactivation of all genes that constitute a living organism.

ABFR

L14 ANSWER 4 OF 12 PCTFULL COPYRIGHT 2003 Univentio
ACCESSION NUMBER: 2000056874 PCTFULL ED 20020515
TITLE (ENGLISH): RETROVIRAL VECTORS AND METHODS FOR PRODUCTION AND USE THEREOF
TITLE (FRENCH): VECTEURS RETROVIRAUX, LEURS PROCEDES DE PRODUCTION ET LEUR UTILISATION
INVENTOR(S): HOPKINS, Nancy;
CHEN, Wenbiao;
BURGESS, Shawn;
AMSTERDAM, Adam
PATENT ASSIGNEE(S): MASSACHUSETTS INSTITUTE OF TECHNOLOGY
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000056874	A1	20000928

DESIGNATED STATES

W:

AU CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

APPLICATION INFO.: WO 2000-US7841 A 20000324
PRIORITY INFO.: US 1999-60/126,123 19990325

ABEN The invention features methods and reagents for introducing a mutation into a gene in a cell.
The method includes contacting the cell with a recombinant retrovirus including: (i) branch-point sequence; (ii) a polypyrimidine tract; (iii) a splice acceptor; (iv) a splice donor; and (v) viral long-terminal repeats, wherein the splice acceptor and the splice donor flank nucleic acid sequence

encoding a stop codon that is in frame with the splice acceptor; and allowing the retrovirus to integrate into a gene of the cell. Integration of the retrovirus into the gene introduces a mutation into the gene.

ABFR L'invention concerne des procedes et des reactifs servant a introduire une mutation dans un gene d'une cellule. Ces procedes consistent a mettre en contact la cellule avec un retrovirus recombiné comprenant (i) une sequence de point de bifurcation; (ii) une partie polypyrimidine; (iii) un accepteur d'epissage; (iv) un donneur d'epissage; et (b) une longue repetition terminale virale, l'accepteur et le donneur d'epissage flanquant une sequence d'acide nucleique qui code un codon d'arret situe a l'interieur d'un cadre avec l'accepteur d'epissage. Ces procedes consistent egalement a permettre l'integration du retrovirus dans un gene de la cellule, cette operation entrainant une mutation dans le gene.

L14 ANSWER 5 OF 12 PCTFULL COPYRIGHT 2003 Univentio

ACCESSION NUMBER: 2000009681 PCTFULL ED 20020515

TITLE (ENGLISH): CONSTRUCTION OF NORMALIZED cDNA LIBRARIES FROM EUKARYOTIC CELLS

TITLE (FRENCH): CONSTRUCTION DE BIBLIOTHEQUES D'ADNC NORMALISEES A PARTIR DE CELLULES EUKARYOTES

INVENTOR(S): NEHLS, Michael;
ZAMBROWICZ, Brian;
FRIEDRICH, Glenn;
RULEY, H., Earl;
SANDS, Arthur, T.;
WATTLER, Sigrid

PATENT ASSIGNEE(S): LEXICON GENETICS INCORPORATED

LANGUAGE OF PUBL.: English

DOCUMENT TYPE: Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2000009681	A2	20000224

DESIGNATED STATES

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL
PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU
ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD
RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 1999-US17945 A 19990810

PRIORITY INFO.: US 1998-60/095,989 19980810

ABEN A new technology is described that allows for the rapid and efficient construction of complex cDNA libraries from cultured eukaryotic cells. The technology exploits eukaryotic biology by using transgenic constructs that have been nonspecifically inserted into the genome to facilitate the expression of nuclear genes as fusion transcripts. The invention further allows one to specifically subclone the corresponding fusion transcripts into highly complex cDNA libraries. The libraries are easily characterized by molecular analysis techniques such as hybridization, and individual clones can be directly sequenced to generate a sequence database of the cellular portion of the fusion

transcripts.

ABFR L'invention concerne une nouvelle technologie permettant la construction rapide et efficace de bibliotheques d'ADNc complexes, a partir de cellules eucaryotes cultivees. Cette technologie exploite la biologie euraryote au moyen de constructions transgeniques qui n'ont pas ete specifiquement inserees dans le genome, afin de faciliter l'expression des genes nucleaires comme transcrits de fusion. L'invention permet egalement de sous-cloner specifiquement les transcrits de fusion correspondants en bibliotheques d'ADNc tres complexes. Ces bibliotheques sont facilement caracterisees par des techniques d'analyse moleculaire telles que l'hybridation, et des clones individuels peuvent etre directement sequences, afin de produire une base de donnees de sequences de la partie cellulaire des transcrits de fusion.

L14 ANSWER 6 OF 12 PCTFULL COPYRIGHT 2003 Univentio
ACCESSION NUMBER: 1999043848 PCTFULL ED 20020515
TITLE (ENGLISH): PROTEIN INTERACTION AND TRANSCRIPTION FACTOR TRAP
TITLE (FRENCH): DETECTION DE L'INTERACTION DE PROTEINES ET PIEGEAGE DU
FACTEUR DE TRANSCRIPTION
INVENTOR(S): ONG, Christopher, J.;
JIRIK, Frank, R.
PATENT ASSIGNEE(S): THE UNIVERSITY OF BRITISH COLUMBIA;
ONG, Christopher, J.;
JIRIK, Frank, R.
LANGUAGE OF PUBL.: French
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9943848	A1	19990902

DESIGNATED STATES

W: CA JP US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

APPLICATION INFO.: WO 1999-CA173 A 19990225
PRIORITY INFO.: CA 1998-2,224,475 19980225

ABEN Methods are provided which make use of a combination of gene trap and two-hybrid methodologies for the identification and characterization of unknown genes according to protein-protein interactions of the gene product or for the identification and characterization of unknown genes encoding transcriptional activator domains (AD). Interaction of an exon-encoded protein domain with a known protein, or functioning of the exon-encoded domain as an AD, is detected by reconstituting the activity of a transcriptional activator. Suitable gene trap vectors are also provided.

ABFR L'invention concerne des procedes dans lesquels on utilise une combinaison de methodes, methode de piegeage de gene et methode a deux hybrides, pour identifier et caracteriser des genes inconnus en fonction des interactions proteines/proteines du produit genique, ou pour identifier et caracteriser des genes inconnus codant des domaines activateurs de transcription. L'interaction entre un domaine de proteine code par un exon et une proteine connue, ou le fonctionnement du domaine code par exon en tant que domaine activateur de transcription, sont detectes par

reconstitution de l'activite d'un activateur de transcription.
L'invention concerne egalement des
vecteurs appropries de piegeage de genes.

L14 ANSWER 7 OF 12 USPATFULL

ACCESSION NUMBER: 2002:294593 USPATFULL
TITLE: High throughput assay for identification of gene
expression modifiers
INVENTOR(S): Pruitt, Steven C., Williamsville, NY, UNITED STATES
Hangauer, David G., East Amherst, NY, UNITED STATES
Stewart, Carleton C., Orchard Park, NY, UNITED STATES
Mielnicki, Lawrence Mark, Buffalo, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002164636	A1	20021107
APPLICATION INFO.:	US 2002-139420	A1	20020506 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-288994P	20010504 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HODGSON RUSS LLP, SUITE 2000, ONE M & T PLAZA, BUFFALO, NY, 14203-2391	
NUMBER OF CLAIMS:	29	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Page(s)	
LINE COUNT:	1050	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a method for screening of a large number of compounds for their ability to modulate the expression of genes. The method uses gene trap technology and comprises the steps of transfecting a population of cells with a gene-trap vector, sorting cells according to their level of fluorescence, distributing sorted cells into pools and expanding the pools to obtain a sufficient number of cells representing each trapped gene to permit distinction of the effect of a test compound over controls, exposing the cells to the test compounds and identifying compounds which alter the fluorescence distribution pattern of cells using FACS analysis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 8 OF 12 USPATFULL

ACCESSION NUMBER: 2002:206117 USPATFULL
TITLE: Novel human polynucleotides and polypeptides encoded
thereby
INVENTOR(S): Nehls, Michael C., Stockdorf, GERMANY, FEDERAL REPUBLIC
OF
Zambrowicz, Brian, The Woodlands, TX, UNITED STATES
Sands, Arthur T., The Woodlands, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002110809	A1	20020815
APPLICATION INFO.:	US 2000-560863	A1	20000428 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-132408P	19990430 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	LEXICON GENETICS INCORPORATED, 8800 TECHNOLOGY FOREST PLACE, THE WOODLANDS, TX, 77381-1160	

NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 3615

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel human polynucleotides are disclosed that correspond to human gene trapped sequences, or GTSS. The disclosed GTSSs are useful for gene discovery and as markers for, inter alia, gene expression analysis, identifying and mapping the coding regions of the mammalian, and particularly human, genome, forensic analysis, and determining the genetic basis of human disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 9 OF 12 USPATFULL

ACCESSION NUMBER: 2002:179239 USPATFULL
TITLE: Novel human polynucleotides and polypeptides encoded thereby
INVENTOR(S): Nehls, Michael C., Stockdorf, GERMANY, FEDERAL REPUBLIC OF
Zambrowicz, Brian, The Woodlands, TX, UNITED STATES
Sands, Arthur T., The Woodlands, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002095031	A1	20020718
APPLICATION INFO.:	US 2000-563817	A1	20000503 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-132343P	19990504 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Lance K Ishimoto, Lexicon Genetics Incorporated, 4000 Research Forest Drive, The Woodlands, TX, 77381	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	3616	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel human polynucleotides are disclosed that correspond to human gene trapped sequences, or GTSS. The disclosed GTSSs are useful for gene discovery and as markers for, inter alia, gene expression analysis, identifying and mapping the coding regions of the mammalian, and particularly human, genome, forensic analysis, and determining the genetic basis of human disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 10 OF 12 USPATFULL

ACCESSION NUMBER: 2002:38555 USPATFULL
TITLE: Vascular endothelial zinc finger 1 gene and protein and uses thereof
INVENTOR(S): STUHLMANN, HEIDI, NEW YORK, NY, UNITED STATES
XIONG, JING-WEI, NEW YORK, NY, UNITED STATES
TAUBMAN, MARK B., LARCHMONT, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002023277	A1	20020221
APPLICATION INFO.:	US 1998-83290	A1	19980522 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BAKER & BOTTS, 30 ROCKEFELLER PLAZA, NEW YORK, NY,		

10112
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 20 Drawing Page(s)
LINE COUNT: 1416

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the diagnosis and treatment of vascular disorders, and to assays for the identification of agents which act upon the circulatory system. It is based, at least in part, on the identification of a novel mouse gene, termed Vezf1 (for "Vascular endothelial zinc finger 1"), which is expressed at higher levels during embryonic development of the circulatory system, in damaged blood vessels, and in newly formed blood vessels associated with tumor growth.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 11 OF 12 USPATFULL

ACCESSION NUMBER: 2001:233296 USPATFULL
TITLE: Cell libraries indexed to nucleic acid microarrays
INVENTOR(S): Ong, Christopher J., Vancouver, Canada

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001053524	A1	20011220
APPLICATION INFO.:	US 2001-883745	A1	20010618 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	CA 2000-2309371	20000616
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SPECKMAN LAW GROUP, Suite 100, 1501 Western Avenue, Seattle, WA, 98101	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
LINE COUNT:	810	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a method for selecting a clone of an ES cell containing a mutation in a gene that is expressed in a test cell comprising: (a) providing cDNA obtained by reverse transcription of mRNA of the test cell; (b) providing a collection of cultured ES cells organized into individual clones, wherein each clone is of an ES cell having a mutation in an exon in its genome, the mutation being in a different exon in cells of different clones; (c) providing an array of different single stranded polynucleotides, the polynucleotides being fragments of exons containing mutations in (b); (d) exposing the cDNA to the array under conditions permitting hybridization of polynucleotides in the array to nucleic acids; (e) detecting hybridization of cDNA to a polynucleotide on the array; and, (f) selecting a clone in the collection from which a hybridizing polynucleotide detected at (c) is an exon fragment. This invention also provides a system for testing expression of a gene in a test cell. Also provided is a preferred exon trap vector for mutating ES cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 12 OF 12 USPATFULL

ACCESSION NUMBER: 2001:55700 USPATFULL
TITLE: Construction of normalized cDNA libraries from eucaryotic cells
INVENTOR(S): Nehls, Michael, The Woodlands, TX, United States
Zambrowicz, Brian, The Woodlands, TX, United States
Friedrich, Glenn, The Woodlands, TX, United States
Ruley, H. Earl, Nashville, TN, United States

PATENT ASSIGNEE(S): Sands, Arthur T., The Woodlands, TX, United States
Wattler, Sigrid, The Woodlands, TX, United States
Lexicon Genetics Incorporated, The Woodlands, TX,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6218123	B1	20010417
APPLICATION INFO.:	US 1999-371257		19990810 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-95989P	19980810 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Brusca, John S.	
ASSISTANT EXAMINER:	Siu, Stephen	
LEGAL REPRESENTATIVE:	Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	19 Drawing Figure(s); 17 Drawing Page(s)	
LINE COUNT:	862	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A new technology is described that allows for the rapid and efficient construction of complex cDNA libraries from cultured eukaryotic cells. The technology exploits eukaryotic biology by using transgenic constructs that have been nonspecifically inserted into the genome to facilitate the expression of nuclear genes as fusion transcripts. The invention further allows one to specifically subclone the corresponding fusion transcripts into highly complex cDNA libraries. The libraries are easily characterized by molecular analysis techniques such as hybridization, and individual clones can be directly sequenced to generate a sequence database of the cellular portion of the fusion transcripts.